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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : **CP-2019-12-02-02** **Date: 07-11-18**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Culvert and U Shape Drain for Secondary SWD Drains near Divya Enginering Works at Kammagondanahalli in Ward No.12.

Agency : Smt K.Jayamma, #H No: 74, Behind Grama Panchayat Office, Sgnabhog Layout, Dasanapura, Bangalore-562133.

Customer's Reference : EE/SWD/DHZ/WO/05/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-11-18

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 05-11-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory

Note:
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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2019-12-02-02** **Date: 15-11-18**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Culvert and U Shape Drain for Secondary SWD Drains near Divya Enginering Works at Kammagondanahalli in Ward No.12.

Agency : Smt K.Jayamma, #H No: 74, Behind Grama Panchayat Office, Sgnabhog Layout, Dasanapura, Bangalore-562133.

Customer's Reference : EE/SWD/DHZ/WO/05/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-11-18

Sample Type /Size : Precast Cover Slab (250mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 10-11-18

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	240.9	7.6	7.1	8.9
2	Cover Slab-2	200.49	250.52	3.122	31564	242.3	7.7	7.1	8.9
3	Cover Slab-3	200.50	250.51	3.118	31567	241.5	7.7	7.1	8.9

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ಬೃಪತ್ ಮಳೆ ನೀರುಗಾಲುವೆ ಉಪ-ವಿಭಾಗ,
ಗಾಸರಹಳ್ಳಿ ವಲಯ, ಬಿ.ಬಿ.ಎಮ.ಪಿ. ಬೆಂಗಳೂರು

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Format No: CPTF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/11/2018

Lab ID	:	CP-2019-12-02-02
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Culvert and U Shape Drain for Secondary SWD Drains near Divya Engineering Works at Kammagondanahalli in Ward No.12.
Agency	:	Smt K.Jayamma, #H No: 74, Behind Grama Panchayat Office, Sgrabbing Layout, Dasarapura, Bangalore-562133.
Customer's Reference	:	EE/SWD/DHZ/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-11-18
Customer ID	:	Drain Bottom Slab concrete (A)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5
Date of test	:	15/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab concrete (A)	M25	07/11/2018	15/11/2018	149.72 X 150.01 X 151.73	22460	8.711	519.1	23.1	23.0
2	Drain Bottom Slab concrete (A)	M25	07/11/2018	15/11/2018	151.81 X 151.75 X 149.56	23037	8.289	528.0	22.9	
3	Drain Bottom Slab concrete (A)	M25	07/11/2018	15/11/2018	150.04 X 149.70 X 149.77	22461	8.665	514.7	22.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/12/2018

Lab ID	:	CP-2019-12-02-02
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division. BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Culvert and U Shape Drain for Secondary SWD Drains near Divya Enginering Works at Kammagondanahalli in Ward No.12.
Agency	:	Smt K.Jayamma, #H No: 74, Behind Grama Panchayat Office, Sgnabhog Layout, Dasanapura, Bangalore-562133.
Customer's Reference	:	EE/SWD/DHZ/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-11-18
Customer ID	:	Drain Bottom Slab concrete (A)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab concrete (A)	M25	07/11/2018	05/12/2018	151.50 X 149.22 X 150.75	22607	8.584	624.5	27.6	27.7
2	Drain Bottom Slab concrete (A)	M25	07/11/2018	05/12/2018	150.34 X 150.20 X 151.36	22581	8.267	600.4	26.6	
3	Drain Bottom Slab concrete (A)	M25	07/11/2018	05/12/2018	151.40 X 150.55 X 149.33	22793	8.439	657.1	28.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-02-02** **Date: 15/11/2018**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Culvert and U Shape Drain for Secondary SWD Drains near Divya Enginering Works at Kammagondanahalli in Ward No.12.

Agency : Smt K.Jayamma, #H No: 74, Behind Grama Panchayat Office, Sgnabhog Layout, Dasanapura, Bangalore-562133.

Customer's Reference : EE/SWD/DHZ/WO/05/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-11-18

Customer ID : Drain Bottom Slab concrete (A)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab concrete (A)	M25	07/11/2018	15/11/2018	150.80 X 149.54 X 151.28	22549	8.711	538.2	23.9	23.2
2	Drain Bottom Slab concrete (A)	M25	07/11/2018	15/11/2018	150.21 X 150.73 X 151.20	22642	8.289	515.1	22.7	
3	Drain Bottom Slab concrete (A)	M25	07/11/2018	15/11/2018	151.15 X 149.84 X 150.08	22649	8.665	517.2	22.8	

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ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬಿ.ಬಿ.ಎಮ್.ಪಿ. ಬೆಂಗಳೂರು

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/12/2018

Lab ID	:	**CP-2019-12-02-02**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Culvert and U Shape Drain for Secondary SWD Drains near Divya Enginering Works at Kammagondanahalli in Ward No.12.
Agency	:	Smt K.Jayamma, #H No: 74, Behind Grama Panchayat Office, Sgnabhog Layout, Dasanapura, Bangalore-562133.
Customer's Reference	:	EE/SWD/DHZ/WO/05/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-11-18
Customer ID	:	Drain Bottom Slab concrete (A)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab concrete (A)	M25	07/11/2018	05/12/2018	149.94 X 150.77 X 150.31	22607	8.584	626.9	27.7	27.6
2	Drain Bottom Slab concrete (A)	M25	07/11/2018	05/12/2018	151.71 X 149.42 X 150.07	22669	8.267	611.2	27.0	
3	Drain Bottom Slab concrete (A)	M25	07/11/2018	05/12/2018	151.77 X 151.99 X 150.60	23067	8.439	648.6	28.1	

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TEST REPORT ON CEMENT CONCRETE CUBES

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the specimen		Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					mm		Sq.mm	kg	KN	N/mm²	N/mm²
1	Down Side Wall concrete (A)	M25			150 150 150		22500	8.046	340.0	15.11	15.11
2	Down Side Wall concrete (A)	M25			150 150 150		22500	8.070	338.0	15.02	
3	Down Side Wall concrete (A)	M25			150 150 150		22500	8.046	341.0	15.16	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-12-02-02 **Date: 15/11/2018**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Culvert and U Shape Drain for Secondary SWD Drains near Divya Enginering Works at Kammagondanahalli in Ward No.12.

Agency : Smt K.Jayamma, #H No: 74, Behind Grama Panchayat Office, Sgnabhog Layout, Dasanapura, Bangalore-562133.

Customer's Reference : EE/SWD/DHZ/WO/05/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-11-18

Customer ID : Drain Side Wall concrete (A)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall concrete (A)	M25	08/11/2018	15/11/2018	151.23 X 150.46 X 151.67	22754	8.046	544.3	23.9	23.0
2	Drain Side Wall concrete (A)	M25	08/11/2018	15/11/2018	149.55 X 151.01 X 149.08	22584	8.919	506.8	22.4	
3	Drain Side Wall concrete (A)	M25	08/11/2018	15/11/2018	151.61 X 149.41 X 151.97	22651	9.058	511.3	22.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-12-02-02 **Date: 06/12/2018**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Culvert and U Shape Drain for Secondary SWD Drains near Divya Enginering Works at Kammagondanahalli in Ward No.12.

Agency : Smt K.Jayamma, #II No: 74, Behind Grama Panchayat Office, Sgnabhog Layout, Dasanapura, Bangalore-562133.

Customer's Reference : EE/SWD/DHZ/WO/05/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-11-18

Customer ID : Drain Side Wall concrete (A)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall concrete (A)	M25	08/11/2018	06/12/2018	151.14 X 150.98 X 149.07	22820	8.377	638.6	28.0	27.7
2	Drain Side Wall concrete (A)	M25	08/11/2018	06/12/2018	151.07 X 149.16 X 149.63	22534	8.729	591.9	26.3	
3	Drain Side Wall concrete (A)	M25	08/11/2018	06/12/2018	149.27 X 149.56 X 150.98	22325	8.922	644.5	28.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-12-02-02** **Date: 14/11/2018**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Culvert and U Shape Drain for Secondary SWD Drains near Divya Enginering Works at Kammagondanahalli in Ward No.12.

Agency : Smt K.Jayamma, #H No: 74, Behind Grama Panchayat Office, Sgnabhog Layout, Dasanapura, Bangalore-562133.

Customer's Reference : EE/SWD/DHZ/WO/05/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-11-18

Customer ID : Drain Side Wall concrete (A)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall concrete (A)	M25	07/11/2018	14/11/2018	150.61 X 150.03 X 151.58	22595	8.046	538.5	23.8	22.9
2	Drain Side Wall concrete (A)	M25	07/11/2018	14/11/2018	150.55 X 151.75 X 150.86	22845	8.919	511.9	22.4	
3	Drain Side Wall concrete (A)	M25	07/11/2018	14/11/2018	150.74 X 149.16 X 151.55	22484	9.058	502.7	22.4	

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